



Humanities and the Sunshine State

What Sustains Us?

Florida Ecosystems in an Era of Rapid Change

University of Florida 20-24 June, 2016

ACTION PLAN TEMPLATE

Teacher(s): Lauren Ortiz

Grade(s): Upper Elementary Grades 3-5

Subject(s): ELA, Science

Title of Lesson:

Learning Objectives: Students will be able to define and identify a system and diagram a simple natural system.

LAFS.3.RI.1.3 Describe the relationship between a series of steps or procedures

LAFS.3.RL.1.3 Describe how characters' actions contribute to a sequence

Standards Addressed: SC.3.N.3.2 - Recognize that scientists use models to help understand & explain how things work

SC.3.N.3.3. Recognize that all models are approximations of natural phenomena; they do not perfectly account for all observations.

Lesson Outline: 1. Ask students to discuss the definition of a system in partners - share out & come to a consensus.

2. Give students objects in bags (ideas - ball point pen, paper clips, scissors, piece of paper, etc). Ask them to debate/decide which objects are systems & which are not and why.
3. Group activity - make a circle & choose 2 people as a focus point & get equal distance. Share out what happens to the "mock" system as people move.
4. Read If You Give a Moose a Cookie and diagram the system in the story (linear).
5. Read Go to Sleep Gecko or Gecko's Complaint and diagram the natural system in the ^{over} story. Think of other natural systems. Draw a natural system in science journals with partner to share with class.

6. Use the "Gecko" books as a springboard to talk about water in our area and it's part in a system.

Systems thinking connection (learning habits and/or tools used):

Linear systems (If You Give A Mouse a Cookie)-drawing the connections between each event.

Natural systems (Go to Sleep Gecko or Gecko's Complaint)-drawing a natural system.

Learning Strategies:

- Partner / group work
- Kinesthetic (Activity 3)
- Concrete (objects in bags) to Abstract (Systems diagrams)
- Oral presentation

Science Concept(s):

Introduction to systems thinking- what they are and how they exist in nature.

Humanities Concept(s):

The human impact on systems... relationship of self to our systems around us every day.

Student Assessment Strategies:

Student presentation of their science journal- were the able to identify and diagram the interrelated parts of any natural system (water cycle, human body etc).

Benefit to my students:

Resources and Materials (supplies needed for activities):

Objects, bags, If You Give a Mouse a Cookie and Go to Sleep Gecko or Gecko's Complaint.